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## PREPREG

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### International Class (IPC Edition 6):

- C08J-005/24
- B29K-061/04
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### JAPIO Class:

- 14.2 (ORGANIC CHEMISTRY--- High Polymer Molecular Compounds)
- 13.3 (INORGANIC CHEMISTRY--- Ceramics Industry)

### JAPIO Keywords:

- R040 (CHEMISTRY--- Reinforced Plastics)
- R052 (FIBERS--- Carbon Fibers)

### Abstract:

**PURPOSE:** To obtain a prepreg which has a low tack at the B stage and a high flexibility at the B and C stages and can easily be converted into a molded sheet with a complicated shape by impregnating a fiber substrate with a specific phenol-HCHO resin and drying the resin.

**CONSTITUTION:** A prepreg is obtained by impregnating a fiber substrate, preferably a glass fiber substrate, with a resole-type phenol-HCHO resin containing a drying oil, preferably having a structure wherein phenol molecules are bonded to double bonds of the oil, still preferably containing the oil in an amount of 40-70wt.% (solid base) (e.g. a resin obtained by reacting phenol, cresole, and tung oil and reacting the reaction product with an ammonia water and formalin) and drying the resulting product.

### JAPIO

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Prepreg for adhesive film, reinforced sheets, etc. - is prepd. by impregnation base fibre sheet with resol polyphenol-polyformaldehyde resin contg. drying oil and drying  
Patent Assignee: DAINIPPON INK & CHEM INC

**Patent Family**

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
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**Patent Details**

Patent	Kind	Language	Page	Main IPC	Filing Notes
JP 7097466	A		4	C08J-005/24	

**Abstract:**

JP 7097466 A

The prepreg. is prepd. by impregnating a base fibre sheet with a resol phenol-formaldehyde resin contg. drying oil, followed by drying. The resin contains 40 to 70 wt. % (solids) of drying oil. The base fibre sheet is made from glass fibre.

pref. phenols for the resin are phenol and alkylphenol. Pref. aldehydes are formaldehyde and paraformaldehyde. The drying oil includes natural oil such as linseed, tung, perilla, soybean and dehydrated castor oils and a combination of fatty acid and synthetic resin. Other fibres for base sheet include inorganic, natural and synthetic organic fibres, and are pref. glass fibres. Drying is with hot air at 60 to 180 deg. C for 0.5 to 60 minutes so that the prepreg. has a volatile matter content of 3 to 15 %.

ADVANTAGE - The prepreg has low tackiness in B stage and shows high flexibility in B and C stages. It can be readily formed into plates of complicated shapes.

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